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3737  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Robert W. Mah

Serial No: 09/652,302

Group No.: not assigned

Filed: August 28, 2000

Examiner: not assigned

For: "Body Sensing System"



Commissioner for Patents  
Washington, DC 20231

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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
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IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING  
INFORMATION DISCLOSURE STATEMENT

1. The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or the date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last [37 C.F.R. 1.97(b)].

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is, on the date shown below, being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231.

Date: October 20, 2000

Signature: *Vickie L. Kent*

Vickie L. Kent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert W. Mah

U.S. Serial No: 09/652,302

Group Art Unit: not assigned

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Title: "BODY SENSING SYSTEM"

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INFORMATION DISCLOSURE STATEMENT SUMMARY

Dear Sir:

The following articles are submitted as part of an Information Disclosure Statement, pursuant to 37 C.F.R. § 1.56.

1. Judith R. Mourant et al, "Spectroscopic Diagnosis of Bladder Cancer With Elastic Light Scattering", Lasers in Surgery and Medicine, vol. 17 (1995) pp. 350-357. This article compares the advantages and disadvantages of using fluorescence, Raman, elastically scattered and diffusely scattered light for optical biopsy over a wavelength range of interest (250-800 nm) for experimental subjects. For malignant bladder tissue, the scattered light has a pronounced negative slope in a wavelength range, 330-370 nm, which is not observed for nonmalignant bladder tissue.

2. H. Liu et al, "Investigation of Optical Reflectance from Human Brain in vivo for Guiding Brain Surgery", citation and date of publ. unknown (3 pages). A fiber optic probe is inserted into regions of the brain to identify gray matter, white matter and a boundary between these two sub-regions. White matter reflectance near 650 nm has a more prominent peak than does gray matter in the same wavelength region.

3. P. Vaupel, "Vascularization, blood flow, oxygenation, tissue pH and bioenergetic status of human breast cancer", (in) Oxygen Transport in Tissue, Plenum Press, NY, vol. 18 (1997) pp. 143-154. Discusses observed correlations, if any, between blood flow rate, perfusion rate, tumor size, interstitial bulk fluid flow and oxygen concentration in normal and malignant tissues.

4. P. Vaupel et al, "Blood Flow, Oxygen and Nutrient Supply, and Metabolic Microenvironment of Human Tumors: A Review", *Cancer Research*, vol. 49 (1989) pp. 6449-6465. Discusses blood flow, perfusion rate, oxygen concentration, pH and metabolic imaging in tumors and in normal tissues.

5. A.J. Surowiec, "Dielectric Properties of Breast Carcinoma and the Surrounding Tissues", *I.E.E.E. Trans. on Bioengineering*, vol. 35 (1988) pp. 257-263. Discusses observations of dielectric permittivity and electrical conductivity in tumorous and normal tissue regions of the breast.

6. B. Kosko and S. Isaka, "Fuzzy Logic", *Scientific American*, July 1993, pp. 76-81. Discusses use of fuzzy logic analysis, as contrasted with conventional binary logic, for certain classes of interactive systems. Compares fuzzy logic analysis with neural network analysis.

7. Neural Network Toolbox For Use With Matlab, The Math Works, Third Version, 1998, pp. 5-1 through 5-56 and 6-1 through 6-19. Describes mathematical formulations of backpropagation analysis and of radial basis neural network analysis of systems.

Respectfully Submitted,



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